ELSEVIER

Journal of Magnetism and Magnetic Materials 214 (2000) 333–335

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Author index to volume 214

Abid, M., H. Lassri, R. Krishnan, M. Nývlt and Š. Višnovský, Magnetic studies of Fe/Pt multilayers 99
Ahmed, F.U., see Azad, A.K. 251
Akiyama, Y., see Yano, K. 217
Anil Kumar, P.S., R. Jansen, O.M.J. van 't Erve, R. Vlutters, P. de Haan and J.C. Lodder, Low-field magnetocurrent above 200% in a spin-valve transistor at room temperature L1
Antunes, A.B., see Bracho Rodríguez, G.J. 78
Arons, R., see Rotter, M. 281
Atherton, D.L., see Mao, W. 69
Azad, A.K., A.K.M. Zakaria, F.U. Ahmed, S.K. Paranjpe and A. Das, Room temperature, low temperature and polarized neutron studies of $YSr_2Fe_3O_8$ 251

Baibich, M.N., see Bracho Rodríguez, G.J. 78
Bellad, S.S., see Watawe, S.C. 55
Ben Youssef, J., see Pogossian, S.P. 276
Böhm, M., see Gebele, O. 309
Bishop, J.E.L., see Heydon, G.P. 225
Bombik, A., B. Leśniewska and A.W. Pacyna, Magnetic susceptibility of powder and single-crystal $TmFeO_3$ orthoferrite 243
Bracho Rodríguez, G.J., L.G. Pereira, M.G.M. Miranda, A.B. Antunes and M.N. Baibich, Magnetotransport and coupling in nanostructured Co/Ag thin films 78
Brück, E., see Zhang, L. 31
Buschow, K.H.J., see Zhang, L. 31

Castro, J., G.A. Gehring and S.J. Robinson, On the stripe domain structure of ferromagnetic ultrathin films 85
Cerjan, C., see Parker, G.J. 130
Chakraborty, S., see Dev Mukherjee, G. 185
Chan, N., V. Kamberský and D. Fraitová, Impedance matrix of thin metallic ferromagnetic films and SSWR in parallel configuration 93
Charnock, J.M., see Watson, J.H.P 13
Chougule, B.K., see Watawe, S.C. 55
Clegg, W.W., see Heydon, G.P. 225
Cohen, L.F., see Damay, F. L149
Cressey, B.A., see Watson, J.H.P 13

Damay, F., L.F. Cohen, J. MacManus-Driscoll, R.S. Freitas and L. Ghivelder, Low-temperature grain boundaries effect in $La_{0.7-x}Y_xCa_{0.3}MnO_3$ L149
Das, A., see Azad, A.K. 251
Davies, H.A., see Heydon, G.P. 225
De Boer, F.R., see Zhang, L. 31
De Haan, P., see Anil Kumar, P.S. L1
Dev Mukherjee, G., S. Chakraborty, K.D.D. Rathnayaka, D.G. Naugle and A.K. Majumdar, Critical exponents of NiFeV alloys for the ferromagnetic–paramagnetic phase transition 185
Drulis, H., see Gaczyński, P. 37

Eckert, D., see Yang, J. 44
Ellwood, D.C., see Watson, J.H.P 13

Farber, P. and H. Kronmüller, Crystallization behaviour and magnetic properties of highly magnetostrictive Fe–Tb–Dy thin films 159
Fernandez-Diaz, M.T., see Rotter, M. 281
Filippov, D.A., see Guanghua, G. 301
Fischer, H.E., see Rotter, M. 281
Fraitová, D., see Chan, N. 93
Freitas, R.S., see Damay, F. L149

Gaczyński, P., F.G. Vagizov, W. Suski, B. Kotur, K. Wochowski and H. Drulis, Magnetic properties and Mössbauer effect studies of $Ce_{1-x}Sc_xFe_4Al_8$ system 37
García, N., I.G. Saveliev, Y.-W. Zhao and A. Zlatkine, Effects of injection current pulses on magnetic domain switching in stable electrodeposited 10 nm Ni contacts 7
García, N., see Minyukov, S.A. 327
Gebele, O., M. Böhm, U. Krey and S. Krompiewski, Systematic two-band model calculations of the GMR effect with metallic and non-metallic spacers and with impurities 309
Gehring, G.A., see Castro, J. 85
Ghivelder, L., see Damay, F. L149
Ghosh, S. and A. Mookerjee, Magnetic properties of disordered CoCu alloys: a first-principles approach 291
Gibbs, M.R.J., see Żuberek, R. 155
Gibbs, M.R.J., see Heydon, G.P. 225

0304-8853/00/$ - see front matter © 2000 Elsevier Science B.V. All rights reserved.
PII: S0304-8853(00)00355-3

Godovikov, S.K., see Yelsukov, E.P. 258
Gratz, E., see Rotter, M. 281
Guanghua, G., R.Z. Levitin, A.Yu. Sokolov, V.V. Snegirev and D.A. Filippov, Study of ferrimagnets with negative interaction within one of the sublattices: magnetic phase diagram of $Gd_{1-x}La_xMn_2Ge_2$ intermetallic compounds 301

Hao, Y., A more precise calculation of the exchange interaction constant between the Tb sublattice and the 3d-sublattice in $Tb_2Fe_{17-x}Ga_x$ ($x = 5$, 6 and 7) compounds 119
Hewett, D.W., see Parker, G.J. 130
Heydon, G.P., W.M. Rainforth, M.R.J. Gibbs, H.A. Davies, J.E.L. Bishop, J.W. Tucker, S. Huo, G. Pan, D.J. Mapps and W.W. Clegg, Investigation of the response of a new amorphous ferromagnetic MFM tip coating with an established sample and a prototype device 225
Hilscher, G., see Rotter, M. 281
Huo, S., see Heydon, G.P. 225

Ino, H., see Yano, K. 217

Jana, S. and R.K. Mukherjee, Generation and measurement of pulsed high magnetic field 234
Jansen, R., see Anil Kumar, P.S. L1
Jiang, J., Z. Zeng, J. Wu and M. Tokunaga, Influence of alloying elements on mechanical properties and microstructures of sintered Nd–Fe–Co–B magnet 61

Kai, T., Interlayer exchange coupling and electronic structure of Co/Mn multilayers 167
Kamberský, V., see Chan, N. 93
Khalfina, A.A., see Shamsutdinov, M.A. 139
Kita, E., see Yano, K. 217
Klaasse, J.C.P., see Zhang, L. 31
Konygin, G.N., see Yelsukov, E.P. 258
Korolyov, A.V., see Yelsukov, E.P. 258
Kotur, B., see Gaczyński, P. 37
Kouzoudis, D., Exact analytical partition function and spin gap for a 2×3 quantum spin $\frac{1}{2}$ ladder 112
Krey, U., see Gebele, O. 309
Krishnan, R., see Abid, M. 99
Krompiewski, S., see Gebele, O. 309
Kronmüller, H., see Farber, P. 159

Lassri, H., see Abid, M. 99
Le Gall, H., see Pogossian, S.P. 276
Leśniewska, B., see Bombik, A. 243
Levitin, R.Z., see Guanghua, G. 301
Li, X. and S. Takahashi, Synthesis and magnetic properties of Fe–Co–Ni nanoparticles by hydrogen plasma–metal reaction 195
Liang, Y.N., see Zhang, L. 31
Lindbaum, A., see Rotter, M. 281
Liu, Z.Y., see Zhang, L. 31
Lodder, J.C., see Anil Kumar, P.S. L1

MacManus-Driscoll, J., see Damay, F. L149
Majumdar, A.K., see Dev Mukherjee, G. 185
Mao, W. and D.L. Atherton, Effect of compressive stress on the reversible and irreversible differential magnetic susceptibility of a steel cube 69
Mapps, D.J., see Heydon, G.P. 225
Mehta, R.V., see Upadhyay, R.V. 105
Menelle, A., see Pogossian, S.P. 276
Minyukov, S.A. and N. García, Domain branching in uniaxial ferromagnets under external field 327
Miranda, M.G.M., see Bracho Rodríguez, G.J. 78
Mookerjee, A., see Ghosh, S. 291
Mukherjee, R.K., see Jana, S. 234
Müller, K.-H., see Yang, J. 44

Naugle, D.G., see Dev Mukherjee, G. 185
Nazarov, V.N., see Shamsutdinov, M.A. 139
Nývlt, M., see Abid, M. 99

Oleinek, Ph., see Yang, J. 44

Pacyna, A.W., see Bombik, A. 243
Pan, G., see Heydon, G.P. 225
Paranjpe, S.K., see Azad, A.K. 251
Parker, G.J., C. Cerjan and D.W. Hewett, Embedded curve boundary method for micromagnetic simulations 130
Paszkowicz, W., see Żuberek, R. 155
Pereira, L.G., see Bracho Rodríguez, G.J. 78
Pogossian, S.P., H. Le Gall, J. Ben Youssef and A. Menelle, Neutron waveguiding properties of Co/Cu exchange coupled magnetic superlattice 276

Rainforth, W.M., see Heydon, G.P. 225
Rathnayaka, K.D.D., see Dev Mukherjee, G. 185
Rheinländer, T., D. Roessner, W. Weitschies and W. Semmler, Comparison of size-selective techniques for the fractionation of magnetic fluids 269
Roberts, A.P., see Watson, J.H.P 13
Robinson, S.J., see Castro, J. 85
Roessner, D., see Rheinländer, T. 269
Rotter, M., A. Lindbaum, E. Gratz, G. Hilscher, H. Sassik, H.E. Fischer, M.T. Fernandez-Diaz, R. Arons and E. Seidl, The magnetic structure of $GdCu_2$ 281

Sarwade, B.D., see Watawe, S.C. 55
Sassik, H., see Rotter, M. 281
Saveliev, I.G., see García, N. 7
Seidl, E., see Rotter, M. 281
Semmler, W., see Rheinländer, T. 269

Shamsutdinov, M.A., V.N. Nazarov and A.A. Khalfina, Structure of domain walls and spin wave spectrum in La_2CuO_4-type antiferromagnets in a magnetic field 139
Snegirev, V.V., see Guanghua, G. 301
Sokolov, A.Yu., see Guanghua, G. 301
Soper, A.K., see Watson, J.H.P 13
Srinivas, D., see Upadhyay, R.V. 105
Suliţanu, N., Microstructure and stripe domains in Ni–S ferromagnetic thin films 176
Suski, W., see Gaczyński, P. 37
Sutar, B.D., see Watawe, S.C. 55
Szymczak, H., see Żuberek, R. 155

Takahashi, S., see Li, X. 195
Tokumitsu, K., see Yano, K. 217
Tokunaga, M., see Jiang, J. 61
Tucker, J.W., Cluster variational theory of spin $\frac{3}{2}$ Ising models 121
Tucker, J.W., see Heydon, G.P. 225

Ulyanov, A.I., see Yelsukov, E.P. 258
Upadhyay, R.V., D. Srinivas and R.V. Mehta, Magnetic resonance in nanoscopic particles of a ferrofluid 105

Vagizov, F.G., see Gaczyński, P. 37
Van 't Erve, O.M.J., see Anil Kumar, P.S. L1
Višnovský, Š., see Abid, M. 99
Vlutters, R., see Anil Kumar, P.S. L1
Volkov, V.V. and Y. Zhu, Dynamic magnetization observations and reversal mechanisms of sintered and die-upset Nd–Fe–B magnets 204
Voronina, E.V., see Yelsukov, E.P. 258

Watawe, S.C., B.D. Sarwade, S.S. Bellad, B.D. Sutar and B.K. Chougule, Microstructure, frequency and temperature-dependent dielectric properties of cobalt-substituted lithium ferrites 55
Watson, J.H.P, B.A. Cressey, A.P. Roberts, D.C. Ellwood, J.M. Charnock and A.K. Soper, Structural and magnetic studies on heavy-metal-adsorbing iron sulphide nanoparticles produced by sulphate-reducing bacteria 13
Wawro, A., see Żuberek, R. 155
Weitschies, W., see Rheinländer, T. 269
Wisniewski, A., see Żuberek, R. 155
Wochowski, K., see Gaczyński, P. 37
Wolf, M., see Yang, J. 44
Wu, J., see Jiang, J. 61

Yang, J., Ph. Oleinek, D. Eckert, M. Wolf and K.-H. Müller, Effect of interstitial carbon on the structural and magnetic properties of $Nd(Fe,M)_{12}C_y$ (M = Ti, V, Mo) 44
Yano, K., Y. Akiyama, K. Tokumitsu, E. Kita and H. Ino, Magnetic moment and Curie temperature for amorphous $Fe_{100-X}Gd_X$ alloys ($18 \leqq X \leqq 60$) 217
Yelsukov, E.P., G.N. Konygin, E.V. Voronina, A.V. Korolyov, A.I. Ulyanov, S.K. Godovikov and A.V. Zagainov, Magnetic behaviour of high Si(Sn) concentration nanocrystalline Fe–Si and Fe–Sn alloys obtained by mechanical grinding 258

Zagainov, A.V., see Yelsukov, E.P. 258
Zakaria, A.K.M., see Azad, A.K. 251
Zeng, D.C., see Zhang, L. 31
Zeng, Z., see Jiang, J. 61
Zhang, L., D.C. Zeng, Y.N. Liang, J.C.P. Klaasse, E. Brück, Z.Y. Liu, F.R. de Boer and K.H.J. Buschow, Magnetic properties of $Er_2Co_{17-x}Si_x$ compounds 31
Zhao, Y.-W., see García, N. 7
Zhu, Y., see Volkov, V.V. 204
Zlatkine, A., see García, N. 7
Żuberek, R., A. Wawro, H. Szymczak, A. Wisniewski, W. Paszkowicz and M.R.J. Gibbs, Magnetostriction and magnetic anisotropy of FeCo/Au multilayers 155

ELSEVIER

Journal of Magnetism and Magnetic Materials 214 (2000) 336–337

journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Subject index to volume 214

Alloy elements 61
Alloys 159, 185, 195, 217, 291
Amorphous 217
Anisotropic magnetic exchange 281
Anisotropy 99, 105
Arrott plot 217
Augmented space recursion 291

Bending strength 61
Bethe lattice 121
Blume–Capel model 121
Blume–Emery–Griffiths model 121

Capacitor bank 234
CF parameters 44
Cluster variational method 121
Co dots 130
Competing interaction 301
Compressive stress 69
Critical exponents 185
Crystal structure 251
Crystallization 159
Curie temperature 185, 217

Diagram 195
Die-upset magnets 204
Dielectric properties 55
Domain branching 327
Domain structure 85, 176
Domain wall 7, 139, 327
Domain wall structures 225

Elastic neutron scattering 281
Electrical properties 55
Electrochemistry 7
ESR 105
Exchange coupling 276

Ferrimagnetism 105
Ferrites 55
Ferromagnetic domains 327
Ferromagnetic films 176
Ferromagnetic nanocontacts 7, 327
Ferromagnetic resonance 93
Ferromagnetism 185
Field-flow fractionation 269
Finite difference 130
FOMPs 44
Fracture toughness 61

Giant magnetoresistance 309
GMR 167
Grain boundaries L149
Ground state 258

Hot electron L1
Hydrogen plasma–metal reaction 195
Hyperfine magnetic field 258

Impurities 309
In situ Lorentz microscopy 204
Injection current 7
Interlayer exchange coupling 167
Iron sulphides 13
Irreversible differential magnetic susceptibility 69
Ising model 121

Kerr effect 99

LMTO-ASA 167

Magnetic anisotropy 155
Magnetic coupling constant 119
Magnetic domains 204
Magnetic field 139
Magnetic field strength 234
Magnetic fluid 105, 269
Magnetic force microscopy 225
Magnetic moment 217, 258
Magnetic multilayers 167
Magnetic order 167
Magnetic properties 13, 31, 119, L149, 195
Magnetic relaxation 269
Magnetic reversal 130
Magnetic structure 251, 281
Magnetic superlattice 276
Magnetic susceptibility 37, 243
Magnetic vortex 130
Magnetism 291
Magnetization 69, 99, 281
Magnetization curves 44
Magnetocrystalline anisotropy 44
Magnetoresistance 7, L149, 327
Magnetostriction 155
Magnetotransport L1, 78
Manganites L149
Mean field theory 85
Mechanical properties 61
Mechanisms of magnetization reversal 204
Metallic thin films 93
Micromagnetic simulation 130
Microstructure 55, 61, 176
Molecular-field model 119
Mössbauer spectra 258
Mössbauer effect 37
Multilayers 78, 99, 155
Multiple phase transitions 301

Nanocrystalline alloys 258
Nanoparticles 13, 105, 195
Nanostructures 78
Neutron diffraction 119, 251
Neutron waveguide 276
Non-metallic spacers 309

Permanent magnet 61
Phase diagrams 301
Phase transition 185
Pick-up coil 234
Polarized neutron scattering 251
Pulsed field 234

Quantum spin ladder 112

Rare-earth compounds 31, 37
Rare-earth orthoferrites 243
Resistivity 37

0304-8853/00/$ - see front matter © 2000 Elsevier Science B.V. All rights reserved.
PII: S0304-8853(00)00356-5

Reversible differential magnetic susceptibility 69
RT_2X_2 compounds 301

Saturation magnetization 258
Schottky barrier L1
Sintered magnets 204
Size-exclusion chromatography 269
Spin gap 112
Spin valve L1
Spin waves 139
Spin-reorientational transition 139
Spin-wave excitations 99
Spin-wave resonance 93
Spontaneous spin reorientation 243
Structure 13
Sulphate-reducing bacteria 13
Surface anisotropy 93, 155
Surface magnetostriction 155

Tensor hysteresis loops 69
Thin films 78, 159, 225, 276
Two-band model 309
Two-sublattice model 119

Ultrathin films 85

Weak ferromagnetism 243

X-ray diffraction 31, 159

Zeeman effect 234